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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------|-------------|----------------------|-------------------------|------------------|
| 10/781,769 | 02/20/2004 | Schang-Jing Hon | MR2349-991 | 3783 |
| 7590 06/13/2005 | | | EXAMINER | |
| Morton J. Rosenberg, Esq. | | | NHU, DAVID | |
| Rosenberg, Kle | in & Lee | | | |
| Suite 101 | | | ART UNIT | PAPER NUMBER |
| 3458 Ellicott Center Drive | | | 2818 | |
| Ellicott City, MD 21043 | | | DATE MAILED: 06/13/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | · · · · · · · · · · · · · · · · · · · | | | | |
|---|--|---|--|--|--|
| • | Application No. | Applicant(s) | | | |
| | 10/781,769 | HON ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | David Nhu | 2818 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI | nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1)⊠ Responsive to communication(s) filed on 28 A | <u>oril 2005</u> . | • | | | |
| 2a) ☐ This action is FINAL . 2b) ☑ This | action is non-final. | | | | |
| 3) Since this application is in condition for allowar | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | |
| 4) ⊠ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) 8 and 9 is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-7 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or | | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine | epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj | e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d). | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| | Said | Sa. | | | |
| Attachment(s) | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4) Interview Summary Paper No(s)/Mail Da | | | | |
| 2) Motice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>01</u>. | | atent Application (PTO-152) | | | |

DETAILED ACTIONS

Drawings

1. There is no description of layer 34 in figure 3. There is no description of layer 55 in figure 5. Also, there is no description of layers 77, 78 in figure 7.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Wong et al (6,562,648 B1).

Regarding claims 1, 5, Wong, (see figures 1a-1h, col. 3, lines 39-67, col. 4-6, lines 1-67), teaches a method of separating a sapphire substrate 215and a thin film 1130 over said sapphire substrate, comprising: providing a laser array 1105 over said sapphire substrate, said laser array emitting a plurality of laser lights 1120 and said plurality of laser lights at least partially penetrating said sapphire substrate and being absorbed by said thin film (see figures 1a, 1b); irradiating said thin film 1130 with said laser array 1105 through sapphire substrate (see figure 1b); separating said sapphire substrate and said thin film (see figures 1a, 1b, 1c, 1f).

Regarding claims 2, 3, 6, 7, Wong, (see figures 1a-1h), also teaches the plurality of laser lights has a wavelength of at 308 nm (see col. 4, lines 63-65); irradiating the thin film 1130

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on an interface of said thin film with the sapphire substrate 215; the laser array 1105 has a predetermined dimension.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Wong'921, Kotaki'830, Strite'680, Hatakoshi'003 are cited as of interest.
- 5. A shortened statutory period for response to this action is set to expired 3 (three) months and 0 (zero) day from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see 710.02 (b)).
- 6. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the patent application information retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

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PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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David Nhu Dav

June 8, 2005